

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A polyester polyethylene terephthalate fiber knitted or woven fabric formed from yarns comprising polyester polyethylene terephthalate fibers ~~comprising, as a principal component, a polyester polymer~~ which has been produced by polycondensing ~~an aromatic dicarboxylate ester~~ a terephthalate diester of ethylene glycol in the presence of a catalyst,

wherein

the catalyst comprises at least one member selected from mixtures (1) and reaction products (2);

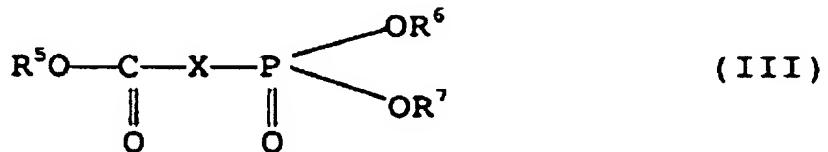
(1) the mixtures (1) for the catalyst comprises a titanium compound component (A) mixed with phosphorus compound component (B),
in which mixtures (1),
the component (A) comprises at least one member selected from the group consisting of (a) titanium alkoxides represented by the general formula (I):



in which formula (I), R¹, R², R³ and R⁴ respectively and independently from each other represent a member selected from alkyl groups having 1 to 20 carbon atoms and a phenyl group, m represent an integer of 1 to 4, and when m represents an integer of 2, 3 or 4, the 2, 3 or 4 R²s and R³s may be respectively the same as each other or different from each other, and (b) reaction products of the titanium compounds of the general formula (I) with aromatic polycarboxylic acids represented by the formula (II):



in which formula (II), n represents an integer of 2 to 4, or anhydrides of the acids of the formula (II); and the component (B) comprising at least one phosphorus compound represented by the general formula (III):



in which formula (III), R⁵, R⁶ and R⁷ respectively and independently from each other represent an alkyl group having 1 to 4 carbon atoms, X represents a member selected from a -CH₂- group and a -CH(Y)- group (wherein Y represents a phenyl group),

the mixture (1) for the catalyst for the polycondensation being employed in an amount satisfying the requirements represented by the following expressions of relation (i) and (ii):

$$1 \leq M_p/M_{Ti} \leq 15 \quad (\text{i})$$

and

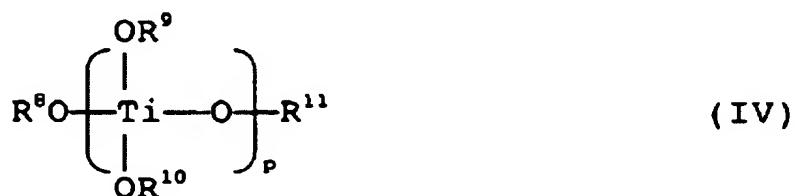
$$10 \leq M_p + M_{Ti} \leq 100 \quad (\text{ii})$$

wherein M_{Ti} represents a ratio in % of a value in milli mole of titanium element contained in the titanium compound component (A) to a value in mole of the aromatic dicarboxylate ester, and M_p represents a ratio in % of a value in milli mole of phosphorus element contained in the phosphorus compound component (A) to the value in mole of the aromatic dicarboxylate ester,

(2) the reaction products (2) for the catalyst comprises a component (C) reacted with a component (D),

in which reaction products (2),

the component (C) comprises at least one member selected from the group consisting of (C) titanium alkoxides represented by the general formula (IV):



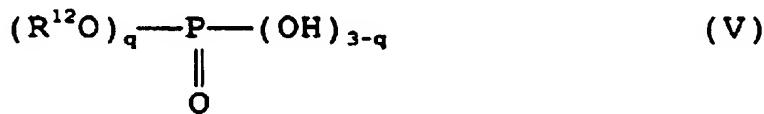
in which formula (IV), R^8 , R^9 , R^{10} and R^{11} respectively and independently from each other represents an alkyl group having 1 to 20 carbon atoms, p represents an integer of 1 to 3, and when p represents an integer of 2 or 3, 2 or 3 R^9 's and R^{10} 's may be respectively the same as each other or different from each other, and (d) reaction products of the titanium alkoxides of the

general formula (IV) with aromatic polycarboxylic acids represented by the above-mentioned

general formula (II) or anhydride-anhydride of the acids; and

the component (D) comprises at least one phosphorus compound

represented by the general formula (V):



in which formula (V), R¹² represents an alkyl group having 1 to 20 carbon atoms or an aryl group having 6 to 20 carbon atoms, and q represents an integer of 1 or 2,

and when the fabric is knitted fabric, the knitted fabric has a wale density of 40 to 80 yarns/2.54 cm and a course density of 30 to 70 yarns/2.54 cm, and when the fabric is a woven fabric, the woven fabric has a cover factor (CF) of 1000 to 3500, which cover factor (CF) is defined as follows:

$$\text{CF} = (\text{DW}_p/1.1)^{1/2} \times \text{MW}_p + (\text{DW}_f/1.1)^{1/2} \times \text{MW}_f$$

wherein DW_p represents a total thickness in dtex of the warp yarns of the fabric, MW_p represents a weave density in yarns/2.54 cm of the warp yarns, DW_f represents a total thickness in dtex of the weft yarns and MW_f represents a weave density in yarns/2.54 cm of the weft yarns.

2. (original): The polyester fiber knitted or woven fabric as claimed in claim 1, wherein in each of the component (A) of the mixture (1) and the component (C) of the reaction products (2) for the catalyst, a reaction molar ratio of each of titanium alkoxides (a) and (c) to the aromatic polycarboxylic acid of the general formula (II) or the anhydride thereof is in the range of from 2:1 to 2:5.

3. (original): The polyester fiber knitted or woven fabric as claimed in claim 1, wherein in the reaction product (2) for the catalyst, a reaction amount ratio of the component (D) to the component (C) is in the range of, in terms of ratio (P/Ti) of the molar amount of phosphorus atoms contained in the component (D) to the molar amount of titanium atoms contained in the component (C), from 1:1 to 3:1.

4. (original): The polyester fiber knitted or woven fabric as claimed in claim 1, wherein the phosphorus compound of the general formula (V) for the reaction product (2) is selected from monoalkyl phosphates.

5. (currently amended): The polyester fiber knitted or woven fabric as claimed in claim 1, wherein the dialkyl ~~aromatic dicarboxylate ester terephthalate diester~~ is one produced by a transesterification reaction of a dialkyl ester of an aromatic dicarboxylic acid with ~~an alkylene~~ ethylene glycol.

6. (currently amended): The polyester fiber knitted or woven fabric as claimed in claim 5, wherein the aromatic dicarboxylic acid is selected from terephthalic acid, 1,2-naphthalene dicarboxylic acid, phthalic acid, isophthalic acid, diphenyldicarboxylic acid, ~~and diphenoxylethane dicarboxylic acid and the alkylene glycol is selected from ethylene glycol, butylene glycol, trimethylene glycol, propylene glycol, neopentyl glycol, hexamethylene glycol and dodecamethylene glycol.~~

7. (original): The polyester fiber knitted or woven fabric as claimed in claim 1, wherein the polyester polymer has an L* value of 77 to 85 and a b* value of 2 to 5, determined in accordance with the L*a*b* color specification of JIS Z 8729.